



A.D. 1858, *29th May.* N^o 1215.

S P E C I F I C A T I O N

OF

MARC ANTOINE FRANCOIS MENNONS.

FUMIGATING APPARATUS.

LONDON:

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1858.



A.D. 1858, 29th *MAY*. N° 1215.

Fumigating Apparatus.

LETTERS PATENT to Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for the Invention of "**AN IMPROVED FUMIGATING APPARATUS.**"—
A communication.

Sealed the 25th November 1858, and dated the 29th May 1858.

PROVISIONAL SPECIFICATION left by the said Marc Antoine François Mennons at the Office of the Commissioners of Patents, with his Petition, on the 29th May 1858.

I, MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent
5 Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, do hereby declare the nature of the said Invention for "**AN IMPROVED FUMIGATING APPARATUS,**" a communication, to be as follows:—

This apparatus is composed of a recipient in glass, porcelain, or metal, fitted with a moveable head, which is mounted with tubes drawn to a point. The
10 recipient being charged with the substance to be volatilised, is heated by means of a spirit lamp, and the gases produced in egressing from the moveable head-piece cause the latter to revolve, and disseminate the vapour into the apartment. It is evident that the same result may be obtained by mounting the recipient itself so that it may rotate freely on its axis.

Mennons' Improved Fumigating Apparatus.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Marc Antoine François Mennons in the Great Seal Patent Office on the 26th November 1858.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 5 39, Rue de l'Echiquier, Paris, in the Empire of France, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-ninth day of May, in the year of our Lord One thousand eight hundred and fifty-eight, in the twenty-first year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the 10 said Marc Antoine François Mennons, Her special licence that I, the said Marc Antoine François Mennons, my executors, administrators, and assigns, or such others as I, the said Marc Antoine François Mennons, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein 15 expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**AN IMPROVED FUMIGATING APPARATUS**," (a communication,) upon the condition (amongst others) that I, the said Marc Antoine François Mennons, my executors or administrators, by an instrument in writing 20 under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent. 25

NOW KNOW YE, that I, the said Marc Antoine François Mennons, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement, reference being had to the Figures of the accompanying Drawing, and to the letters marked thereon, that is to say:— 30

The Invention communicated to me is based on an application of the reacting steam turbine principle to the construction of an apparatus for separating and distributing the volatile constituents of various perfumes and pharmaceutical products.

Figures 1, 2, 3, 4, of the accompanying Drawing, represent primary forms 35 of the apparatus, with fixed recipient and moveable turbine.

Figure 5 represents a modification of the above, in which the recipient and turbine rotate together.

Mennons' Improved Fumigating Apparatus.

Fig 1 : A, pedestal, in iron, brass, copper, or other metal ; B, spirit lamp ; C, metallic circle of the support ; D, fixed recipient, of metal, glass, porcelain, or other suitable matter, and containing the product to be vaporised ; E, moveable turbine.

5 Fig. 2 is a vertical section of apparatus, Fig. 1.

Fig. 3 is another form of the above apparatus, with fixed recipient and moveable turbine. A, pedestal ; B, lamp ; C, vertical support of the recipient, secured by the screw *a* ; D, recipient ; E, moveable turbine, revolving on the neck of the recipient.

10 Fig. 4 is a horizontal projection of the apparatus, Figure 3.

Fig. 5 represents a modification of the apparatus, in which the recipient and turbine follow the same movement of rotation. A, pedestal ; B, lamp ; C, vertical support of the centre point, on which revolves the recipient ; D, revolving recipient, forming part of the turbine ; E, fixed turbine ; F, centre
15 point, on which the apparatus revolves ; G, collar, in which revolves the neck of the recipient.

The recipient being charged with the substance to be volatilised, and the lamp lighted, the vapour disengaged by the orifices of the turbine produce a movement of rotation, the speed of which is proportioned to the elastic force of
20 the gases evolved, and the diameter of the escape apertures. It is evident that the dispersing or distributing power of the revolving jets is far superior to that of a simple evaporating surface of considerable extent. To this fact is due much of the utility of the apparatus when employed for the volatilisation of perfumes, antiseptics, and medicinal compounds of a certain value, the
25 maximum effect being obtained at the most economical rate possible. When intended for use in purifying the vitiated air of hospitals, lazarettoes, dissecting rooms, barracks, and other establishments exposed to deleterious emanations, the dimensions of the apparatus should be proportioned to the extent of the building or locality to be acted on. For perfuming or disinfecting ordinary
30 appartments, the dimensions given in the Drawing are amply sufficient.

The following perfumes and medical compounds may be noted among those advantageously employed with this apparatus :—Alcoholic and other solutions or extracts of aromatic plants and resins, such as rose and lavender waters, tinctures of mint, myrrh, and verbenas, eau de cologne, and toilet
35 vinegars, empyreumatic and essentials oils, benzoin, balsams of Tolu, Peru, etc., etc., etc.

For hospital, barrack, or prison use, a supply of chlorine may be readily obtained by the decomposition of chloride of lime, muriatic acid with oxide of manganese, or other substances having chlorine for base.

Mennons' Improved Fumigating Apparatus.

Having thus described the nature of the said Invention, and the manner of carrying it into effect, I would have it understood that I do not limit myself to the forms, dimensions, or general details above laid down, as these may be varied to almost any extent without departing from the principle of the Invention, which reposes on the application of the reacting steam turbine 5 to the construction of a fumigating apparatus, substantially as above described, and represented in the Figures of the annexed Drawing.

In witness whereof, I, the said Marc Antoine François Mennons, have hereunto set my hand and seal, this Twenty-fifth day of Novembre, in the year of our Lord One thousand eight hundred and fifty-eight. 10

M. F. MENNONS. (L.S.)

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1858.

A. D. 1858, MAY 29, N° 1215.
MENNON S' SPECIFICATION.

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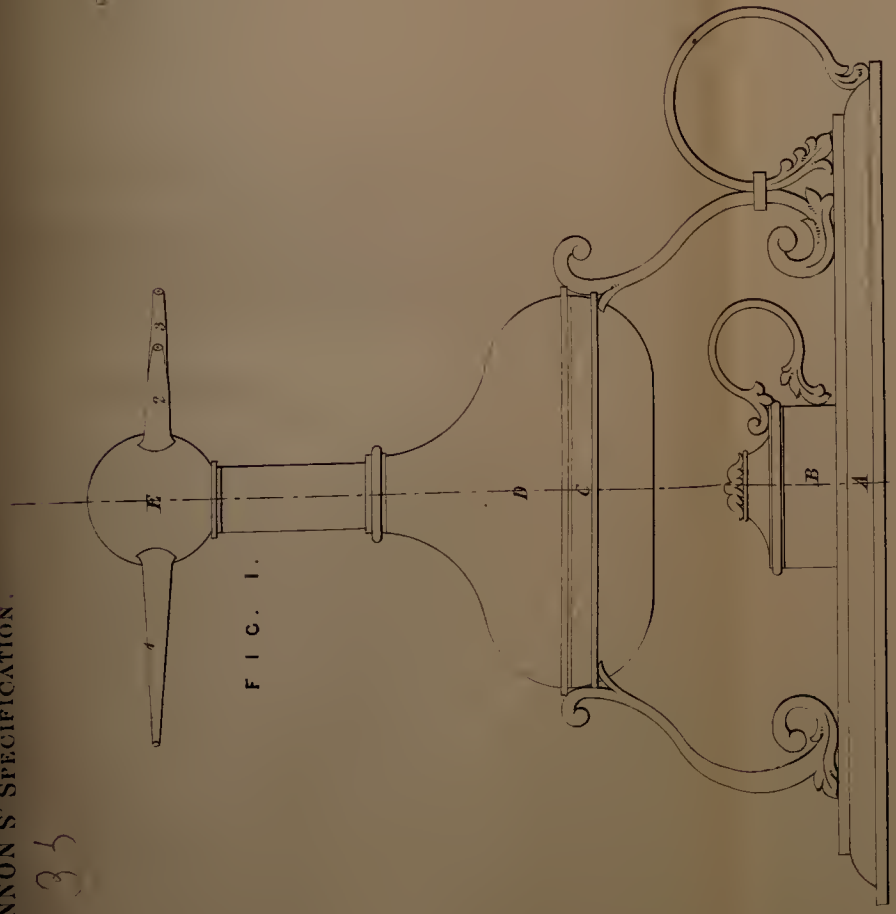


FIG. 1.

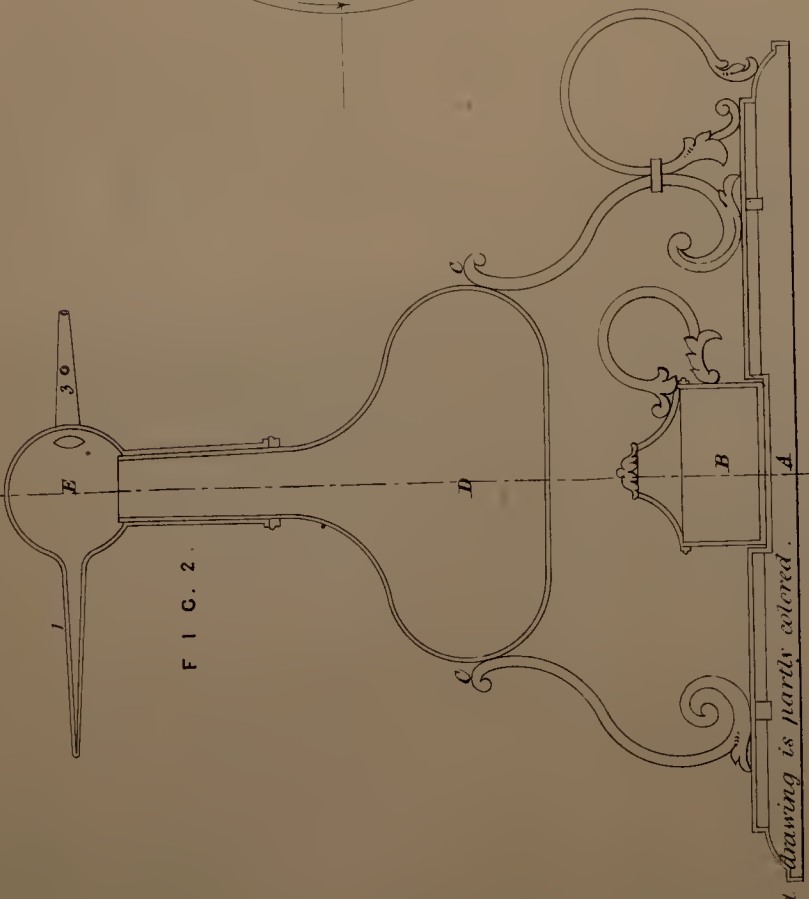


FIG. 2.

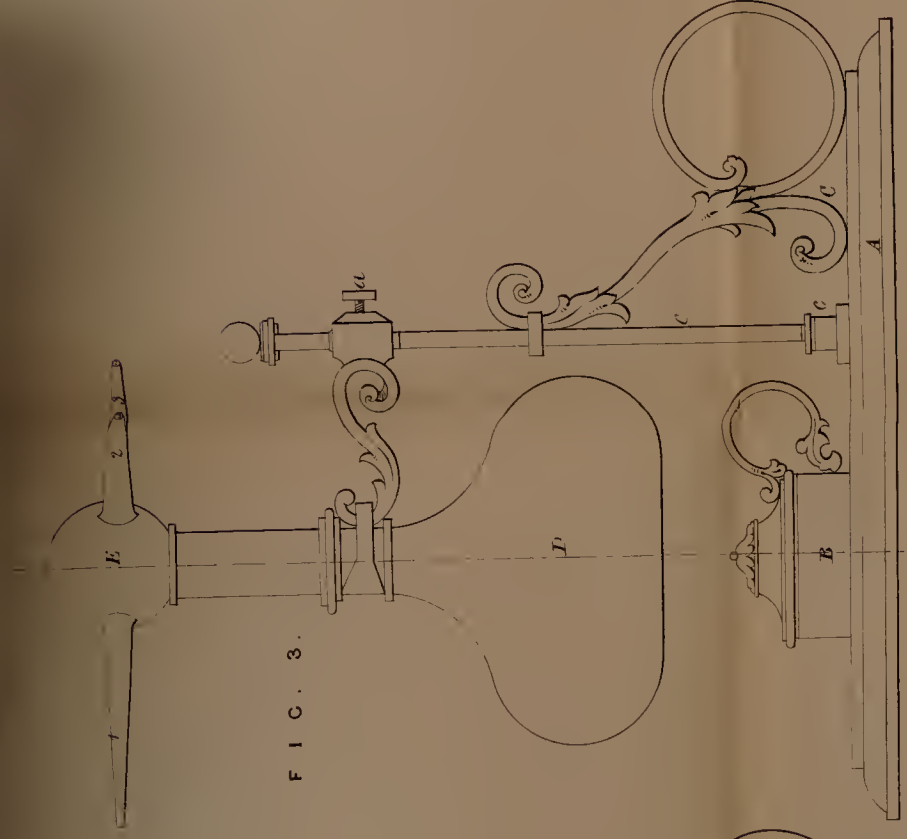


FIG. 3.

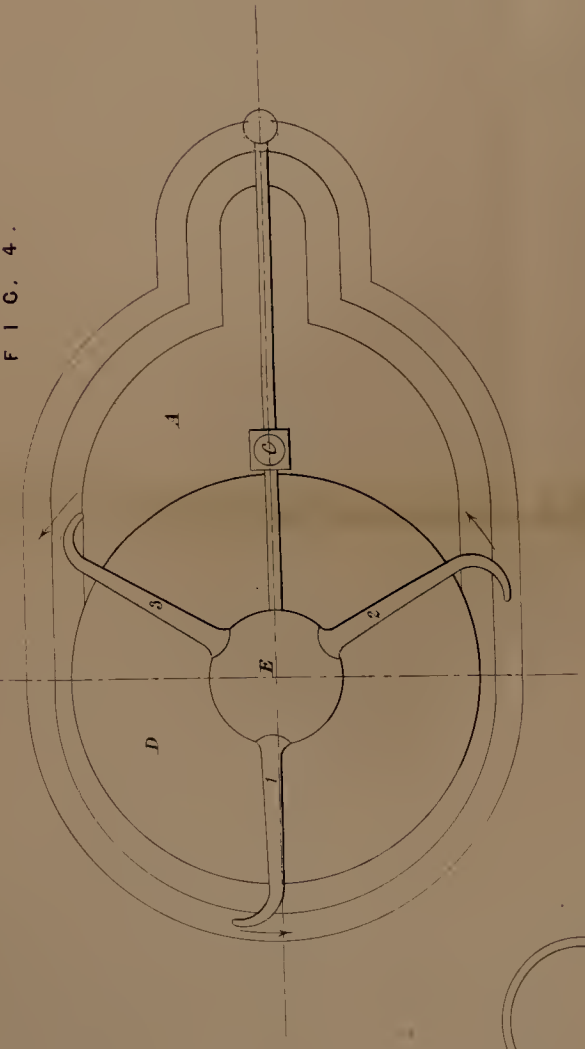


FIG. 4.

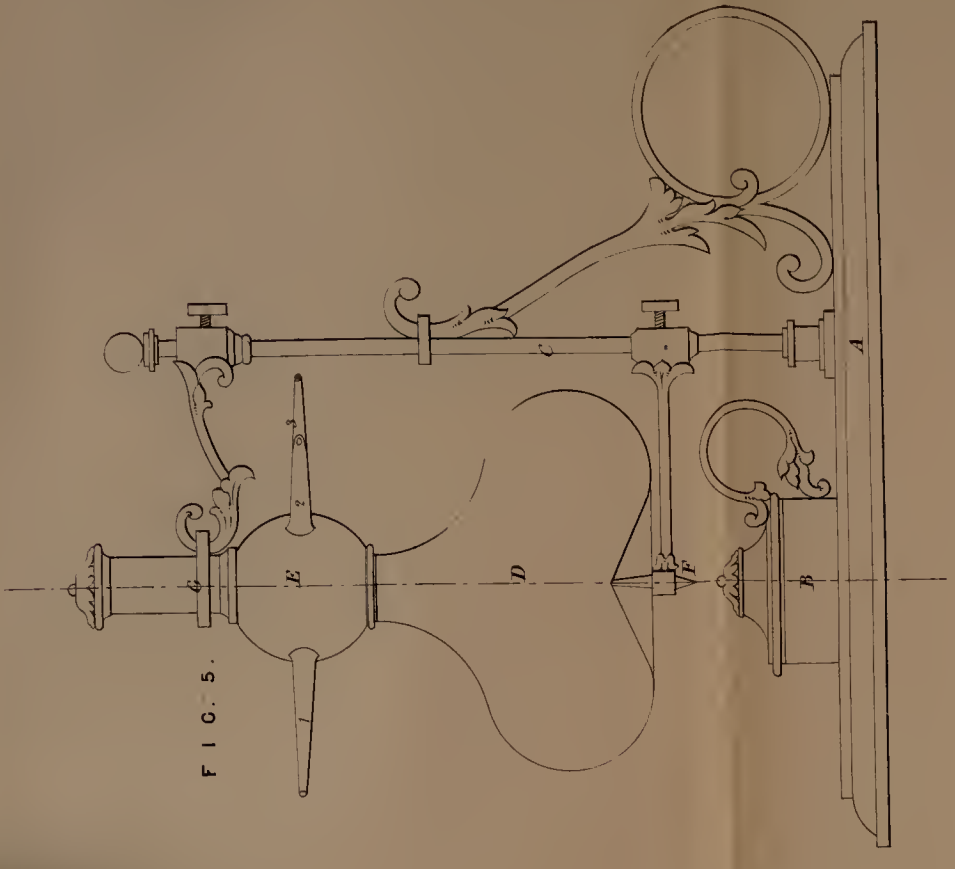


FIG. 5.

The filed drawing is partly colored.

